Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.04.2021 **Version 14** **Revision: 28.04.2021**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: DURALAC JOINTING COMPOUND

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture
Anti-corrosive jointing compound
For industrial or professional use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Llewellyn Ryland Ltd
Haden Street, Birmingham B12 9DB, United Kingdom
Tel: +44 (0)121 440 2284
Fax: +44 (0)121 440 0281
Email: technical@llewellyn-ryland.co.uk

Supplied by:
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B46 1HG. UK
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(Monday to Friday, 08:00 – 17:30 – GMT)

1.4 Emergency telephone number:

Llewellyn Ryland Ltd, Tel: +44 (0)121 440 2284 (office hours only , 7am - 7pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226 Flammable liquid and vapour.
Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H312 Harmful in contact with skin.
Acute Tox. 4	H332 Harmful if inhaled.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Muta. 1B	H340 May cause genetic defects.
Carc. 1A	H350 May cause cancer.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:
barium chromate
White Spirit
cobalt(II) 2-ethylhexanoate
2-butanone oxime

Hazard statements

H226	Flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.

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H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves,protective clothing,eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards Vapours may form ignitable mixture with air.

Results of PBT and vPvB assessment
This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 10294-40-3 EINECS: 233-660-5 Reg.nr.: 1-2120769889-24	barium chromate Acute Tox. 3, H311; Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1A, H350; Repr. 2, H361; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	25 - 50%
CAS: 1332-58-7 EC number: 310-194-1	kaolin substance with a Community workplace exposure limit	25 - 50%
EC number: 919-446-0 Reg.nr.: 01-2119458049-33	White Spirit Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	10 - 25%
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304, EUH066	2.5 - 10%
CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6	naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304, EUH066	≤ 2.5%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt Repr. 2, H361d	≤ 2.5%
CAS: 96-29-7 EINECS: 202-496-6 Index number: 616-014-00-0 Reg.nr.: 01-2119539477-28	2-butanone oxime Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	≤ 2.5%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt(II) 2-ethylhexanoate Repr. 1A, H360Fd; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≤ 2.5%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit	≤ 2.5%

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Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).
In case of unconsciousness place patient stably in side position for transportation.

After inhalation:
Remove person to fresh air and keep comfortable for breathing.
Seek medical treatment in case of complaints.
If respiratory activity is irregular or cessation of breathing appears give artificial respiration.

After skin contact:
Remove contaminated clothes immediately, wash the affected skin thoroughly with plenty of water.
In case of irritation seek medical treatment.
Wash contaminated clothes before reuse.

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If irritation persists, get medical advice/attention.

After swallowing:
Rinse out mouth with water. Do NOT induce vomiting. Seek medical advice and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, dry chemical powder, foam or water spray
For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
Formation of flammable or explosive air/vapour mixtures are possible.

5.3 Advice for firefighters

Protective equipment:
In the case of fire wear self-contained respiratory equipment and protective suit.
Do not inhale explosion gases or combustion gases.

Additional information
Evacuate area and remove all ignition sources.
Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.
Dispose of fire debris and contaminated fire fighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)
Keep people at a distance and stay on the windward side.
Ensure adequate ventilation.
Turn leaking containers leak-side up to prevent the escape of liquid.
Keep away from ignition sources.

6.2 Environmental precautions:
Do not allow to enter sewers, surface or ground water.
Contain the spilled material by bunding.
Advise water authority in case of seepage into water course or sewage system.

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6.3 Methods and material for containment and cleaning up:
Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite).
Place into suitable and labelled containers for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of aerosols.
Avoid any contact with skin, eyes and clothes.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wash hands before break and at the end of work.

Information about fire - and explosion protection:
Keep away from heat, sparks, open flames and hot surfaces. No smoking.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Ground and bond container and receiving equipment.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Store in tightly closed containers in a cool and well ventilated place.
Protect from heat and direct sun.

Information about storage in one common storage facility:
Do not store food, beverages and animal feeding stuffs in the storage area.
Store away from strong acids or strong oxidising agents.

Further information about storage conditions:
Keep container tightly sealed.
Store in a place which is accessible only to authorised persons.

7.3 Specific end use(s) Use only according to instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 1332-58-7 kaolin	
WEL (Great Britain)	Long-term value: 2 mg/m³
CAS: 136-52-7 cobalt(II) 2-ethylhexanoate	
WEL (Great Britain)	Long-term value: 0.1 mg/m³; as Co; Carc, Sen
CAS: 34590-94-8 (2-methoxymethylethoxy)propanol	
WEL (Great Britain)	Long-term value: 308 mg/m³, 50 ppm; Sk

Regulatory information WEL (Great Britain): EH40/2020

8.2 Exposure controls
Appropriate engineering controls Provide sufficient ventilation, particularly in closed areas.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace.
Remove contaminated clothing immediately and wash carefully before reuse.
Do not breathe gas/vapours/spray.
Ensure that washing facilities are available at the work place.

Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection
Chemical resistant gloves
Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Safety glasses

Body protection: Protective clothing.

Environmental exposure controls
Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Fluid
Form:	Viscous liquid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	No data available
Boiling point or initial boiling point and boiling range:	> 35 °C
Flammability:	No data available.
Lower and upper explosion limit:	No data available.
Flash point:	23 - 55 °C
Auto-ignition temperature:	No data available.
pH:	No data available
Viscosity	
dynamic:	11,600 - 23,200 mPas (Brookfield RV 3 at 2.5rpm, 25 °C)
kinematic:	Not determined.
Solubility	
water:	No data available.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Density:	No data available.

9.2 Other information

Explosive properties:	Not explosive.
Oxidising properties:	No data available.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void

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Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under recommended transport or storage conditions.

10.2 Chemical stability Stable at ambient temperature and under normal conditions of use.

10.3 Possibility of hazardous reactions Vapours may form ignitable mixture with air.

10.4 Conditions to avoid Keep away from heat, sparks, open flames and hot surfaces.

10.5 Incompatible materials: Strong acids, strong oxidising agents

10.6 Hazardous decomposition products: Decomposes at high temperatures may form toxic gases.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Harmful if swallowed, in contact with skin or if inhaled.

LD/LC50 values relevant for classification: No further relevant information available.

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.
Carcinogenicity May cause cancer.
Reproductive toxicity Suspected of damaging fertility or the unborn child.

STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: For the product there are no ecotoxicological data available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

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12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Endocrine disrupting properties
For information on endocrine disrupting properties see section 11.
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Transfer to a suitable container and arrange for collection by specialised disposal company.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
Not completely emptied packaging is to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS
IMDG	PAINT RELATED MATERIAL (barium chromate, White Spirit), MARINE POLLUTANT
IATA	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: barium chromate, White Spirit
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso category
E1 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS

National regulations: -
Additional classification according to Decree on Hazardous Materials, Annex II:
Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Further information:
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008:
Calculation method

Date of previous version: 16.01.2018

Abbreviations and acronyms:
CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances
WEL: workplace exposure limit
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1A: Carcinogenicity – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Data compared to the previous version altered: Section 1,2,3,4,5,6,7,8,9,11,12,14,15,16